

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=5; day=29; hr=18; min=33; sec=55; ms=330; ]

=====

Application No: 10577696

Version No: 3.1

Input Set:

Output Set:

Started: 2008-05-29 18:31:40.308

Finished: 2008-05-29 18:31:46.247

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 939 ms

Total Warnings: 990

Total Errors: 0

No. of SeqIDs Defined: 990

Actual SeqID Count: 990

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2008-05-29 18:31:40.308  
**Finished:** 2008-05-29 18:31:46.247  
**Elapsed:** 0 hr(s) 0 min(s) 5 sec(s) 939 ms  
**Total Warnings:** 990  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 990  
**Actual SeqID Count:** 990

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Jackson, Aimee L.  
 Bartz, Steven R.  
 Burchard, Julja,  
 Linsley, Peter S.  
 Ge, Wei  
 Cavet, Guy L.

<120> METHOD OF DESIGNING siRNAs FOR GENE  
 SILENCING

<130> 9301-244-999

<140> 10/577,696

<141> 2006-04-27

<150> PCT/US2004/035636

<151> 2004-10-27

<150> 60/515,180

<151> 2003-10-27

<150> 60/572,314

<151> 2004-05-17

<160> 990

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> an example of siRNA

<400> 1

gcgttaatgt gataatata

19

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 2

tgttggtccgg ctgatggac

19

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 3  
 actcttactg ctctccagt 19

<210> 4  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 4  
 cttaacacgg atgctgggtg 19

<210> 5  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 5  
 ggagagcttt ctaggacct 19

<210> 6  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 6  
 agtcaccccg cagagccgc 19

<210> 7  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 7  
 atcgtagtgc ttgtactta 19

<210> 8

<211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 8  
 ggagacgtac cgctgcatc 19  
  
 <210> 9  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 9  
 gcagtgattg ctcagcagc 19  
  
 <210> 10  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 10  
 gagttttaccg accaccaag 19  
  
 <210> 11  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 11  
 tgcggatgcc attcagtgg 19  
  
 <210> 12  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 12

cacggttggc agagtctat 19

<210> 13

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 13

gcaagttgag ctctaccgc 19

<210> 14

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 14

tggccagcgc ttactggaa 19

<210> 15

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 15

gttcaaaagc tggatgac 19

<210> 16

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 16

ggcctctata cccctcaaa 19

<210> 17

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 17

agaaccgaat cgtctagag

19

<210> 18

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 18

cacgatgcat agccatcct

19

<210> 19

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 19

cagagacaga atctacact

19

<210> 20

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 20

caacagaagg ttgtcttgt

19

<210> 21

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 21

ttgtgtgtgg gaccgtaat

19

<210> 22

<211> 19

<212> DNA

<213> Artificial Sequence



<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 22  
gctcacggtc attaccgag 19

<210> 23  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 23  
cctgaggaac attactcgg 19

<210> 24  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 24  
tgctgacctc tgttacctc 19

<210> 25  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 25  
cgacacggcc tgtgtagct 19

<210> 26  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 26  
cggcagccag agcatgtac 19

<210> 27

<211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 27  
 ccagaacttg cagcaactg 19  
  
 <210> 28  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 28  
 cctcacggtc atccgcggc 19  
  
 <210> 29  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 29  
 ctacgccctg gtcattcttc 19  
  
 <210> 30  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 30  
 tctcaaggat attgggctt 19  
  
 <210> 31  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 31

ggatattggg ctttacaac 19

<210> 32

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 32

cattactcgg ggggccatc 19

<210> 33

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 33

aatgctgacc tctgttacc 19

<210> 34

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 34

ctggatcgta agaaggcag 19

<210> 35

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 35

tggaaggtga aaggtcacc 19

<210> 36

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 36

ggacaactgc agctactct

19

<210> 37

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 37

tacggactca ccttgcttg

19

<210> 38

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 38

gtatatacat tcagctgac

19

<210> 39

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 39

ggaacacccc ccgcttattc

19

<210> 40

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 40

gtggccgatc cttatgatc

19

<210> 41

<211> 19

<212> DNA

<213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 41  
 atgtgattgg tctgttgga 19

<210> 42  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 42  
 gtcacacagct ttgtgccac 19

<210> 43  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 43  
 taattcacag ggacctaaa 19

<210> 44  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 44  
 tgcctacttt gctcagtac 19

<210> 45  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 45  
 cctacagaga actgcggtt 19

<210> 46

<211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
       in construction of siRNA library  
  
 <400> 46  
 ttctccgagg tctaaagta 19  
  
 <210> 47  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
       in construction of siRNA library  
  
 <400> 47  
 ccagtggccg atccttatg 19  
  
 <210> 48  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
       in construction of siRNA library  
  
 <400> 48  
 ggcccttttca cgggaactc 19  
  
 <210> 49  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
       in construction of siRNA library  
  
 <400> 49  
 ctgaagaagc tactgcttg 19  
  
 <210> 50  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
       in construction of siRNA library  
  
 <400> 50

gacatgcgaa tgacactag 19

<210> 51

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 51

agaggaactc tctgcaagc 19

<210> 52

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 52

aaactgggag gctacttac 19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 53

actgacaaca aagtgcagc 19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 54

ctcacattgt ccaccagga 19

<210> 55

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 55

gacctgtgcc ttttagaga

19

<210> 56

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 56

gacttcattg acagtggcc

19

<210> 57

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 57

aaaggacaac tgcagctac

19

<210> 58

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 58

tggaggggaa tgctcagaa

19

<210> 59

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 59

taaagatggc actttcccg

19

<210> 60

<211> 19

<212> DNA

<213> Artificial Sequence



<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 60  
 aaggcagcta aaggaagtg 19

<210> 61  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 61  
 tattggggcca gcagattac 19

<210> 62  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 62  
 ttatgacgct aggccacaa 19

<210> 63  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 63  
 ggagaaagat ccctttgag 19

<210> 64  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence corresponding to siRNA sense strand  
 in construction of siRNA library

<400> 64  
 acaaaaacgg agatccgtc 19

<210> 65

<211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 65  
 ataagcagca agaaacggc 19  
  
 <210> 66  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 66  
 gaatttcggg ctactttgg 19  
  
 <210> 67  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 67  
 cgcaccttcc atgtggaga 19  
  
 <210> 68  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 68  
 agacgttttt gtgctgtgg 19  
  
 <210> 69  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> DNA sequence corresponding to siRNA sense strand  
         in construction of siRNA library  
  
 <400> 69

gctggagaac ctcatgctg

19

<210> 70

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand  
in construction of siRNA library

<400> 70

ctctaccact gaagagttg

19

<210> 71

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand